

SEQUENCE LISTING

<110> Mahajan, Pramod B.

<120> Rice MLH1 Ortholog and Uses Thereof

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Glu Val Ile Gln Arg Pro Ser Ser Ala Val Lys Glu Leu Ile Glu Asn
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Gly Leu Lys Leu Ile Gln Val Ser Asp Asp Gly His Gly Ile Arg Phe
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gag gat ttg gca ata ttg tgc gaa agg cat act acc tca aag tta tct      408
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Gln Asn Ser Asn Asp Asp Tyr Pro Lys Ile Val Asp Phe Ile Ser Arg	
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Ile Lys Val Ser Tyr Glu Asp Ala Ala Asp Ser Ile Phe Lys Met Asp	
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His Pro Thr Lys Lys Glu Val Ser Leu Leu Asn Gln Glu Arg Ile Ile	
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 580 585 590
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 610 615 620
 Ala Leu His Pro Pro Ile Leu Pro Asn Pro Ser Gly Asn Gly Ile His
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Asp	Ser	Pro	Val	Ser	Gln	Lys	Pro	Ser	Gly	Gln	Lys	Thr	Gln	Lys	Val
385					390					395					400
Pro	Val	Asn	Lys	Met	Val	Arg	Thr	Asp	Ser	Ser	Asp	Pro	Ala	Gly	Arg
			405						410					415	
Leu	His	Ala	Phe	Leu	Gln	Pro	Lys	Pro	Gln	Ser	Leu	Pro	Asp	Lys	Val
		420						425					430		
Ser	Ser	Leu	Ser	Val	Val	Arg	Ser	Ser	Val	Arg	Gln	Arg	Arg	Asn	Pro
	435						440					445			
Lys	Glu	Thr	Ala	Asp	Leu	Ser	Ser	Val	Gln	Glu	Leu	Ile	Ala	Gly	Val
	450					455					460				
Asp	Ser	Cys	Cys	His	Pro	Gly	Met	Leu	Glu	Thr	Val	Arg	Asn	Cys	Thr
465					470					475					480
Tyr	Val	Gly	Met	Ala	Asp	Asp	Val	Phe	Ala	Leu	Val	Gln	Tyr	Asn	Thr
			485						490					495	
His	Leu	Tyr	Leu	Ala	Asn	Val	Val	Asn	Leu	Ser	Lys	Glu	Leu	Met	Tyr
			500					505					510		
Gln	Gln	Thr	Leu	Arg	Arg	Phe	Ala	His	Phe	Asn	Ala	Ile	Gln	Leu	Ser
		515					520					525			
Asp	Pro	Ala	Pro	Leu	Ser	Glu	Leu	Ile	Leu	Leu	Ala	Leu	Lys	Glu	Glu
	530					535					540				
Asp	Leu	Asp	Pro	Gly	Asn	Asp	Thr	Lys	Asp	Asp	Leu	Lys	Glu	Arg	Ile
545					550					555					560
Ala	Glu	Met	Asn	Thr	Glu	Leu	Leu	Lys	Glu	Lys	Ala	Glu	Met	Leu	Glu
			565						570					575	
Glu	Tyr	Phe	Ser	Val	His	Ile	Asp	Ser	Ser	Ala	Asn	Leu	Ser	Arg	Leu
			580					585					590		
Pro	Val	Ile	Leu	Asp	Gln	Tyr	Thr	Pro	Asp	Met	Asp	Arg	Val	Pro	Glu
		595					600					605			
Phe	Leu	Leu	Cys	Leu	Gly	Asn	Asp	Val	Glu	Trp	Glu	Asp	Glu	Lys	Ser
	610					615					620				
Cys	Phe	Gln	Gly	Val	Ser	Ala	Ala	Ile	Gly	Asn	Phe	Tyr	Ala	Met	His
625					630					635					640
Pro	Pro	Leu	Leu	Pro	Asn	Pro	Ser	Gly	Asp	Gly	Ile	Gln	Phe	Tyr	Ser
			645						650					655	
Lys	Arg	Gly	Glu	Ser	Ser	Gln	Glu	Lys	Ser	Asp	Leu	Glu	Gly	Asn	Val
		660						665					670		
Asp	Met	Glu	Asp	Asn	Leu	Asp	Gln	Asp	Leu	Leu	Ser	Asp	Ala	Glu	Asn
	675						680					685			
Ala	Trp	Ala	Gln	Arg	Glu	Trp	Ser	Ile	Gln	His	Val	Leu	Phe	Pro	Ser
	690					695					700				
Met	Arg	Leu	Phe	Leu	Lys	Pro	Pro	Ala	Ser	Met	Ala	Ser	Asn	Gly	Thr
705					710					715					720
Phe	Val	Lys	Val	Ala	Ser	Leu	Glu	Lys	Leu	Tyr	Lys	Ile	Phe	Glu	Arg
				725					730					735	
Cys															